

page

1765

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TRANSMITTAL

PATENT

Application No.: 09/891,730
Filing Date: June 25, 2001
First Named Inventor: Steven Verhaverbeke
Examiner's Name: Umez-Eronini, Lynette T.
Art Unit: 1765
Attorney Docket No.: 4990 USA/W-C/W-C/IB1
BSTZ Docket No.: 4887.P447

- ☐ An Amendment After Final Action (37 CFR 1.116) is attached and applicant(s) request expedited action.
- ☒ Charge any fee not covered by any check submitted to Deposit Account No. 02-2666.
- ☒ Applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 CFR 1.16 and 1.17, for any concurrent or future reply to Deposit Account No. 02-2666.
- ☐ Applicant(s) claim small entity status (37 CFR 1.27).

ATTACHMENTS

- ☐ Preliminary Amendment
- ☐ Amendment/Response with respect to Office Action
- ☐ Amendment/Response After Final Action (37 CFR 1.116) (reminder: consider filing a Notice of Appeal)
- ☐ Notice of Appeal
- ☐ RCE (Request for Continued Examination)
- ☐ Supplemental Declaration
- ☐ Terminal Disclaimer (reminder: if executed by an attorney, the attorney must be properly of record)
- ☒ Information Disclosure Statement (IDS)
- ☒ Copies of IDS citations
- ☐ Petition for Extension of Time
- ☒ Fee Transmittal Document (that includes a fee calculation based on the type and number of claims)
- ☐ Cross-Reference to Related Application(s)
- ☐ Certified Copy of Priority Document
- ☐ Other: _____
- ☐ Other: _____
- ☒ Check(s)
- ☒ Postcard (Return Receipt)

SUBMITTED BY:

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP

TYPED OR PRINTED NAME: Heather M. Molleur, Reg. No. 50,432

SIGNATURE: *H. Molleur*

DATE: 3/4/04

ADDRESS: 12400 Wilshire Boulevard, Seventh Floor

Los Angeles, California 90025

TELEPHONE NO.: (408) 720-8300

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on March 4, 2004

Date of Deposit

Claire Wallters

Name of Person Mailing Correspondence

Claire Wallters

Signature

3/4/2004

Date

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**FEE TRANSMITTAL FOR FY 2004**

(FY 2004 Begins 10/01/2003)

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Complete if Known:

Application No. 09/891,730
Filing Date June 25, 2001
First Named Inventor Steven Verhaverbeke
Examiner Name Umez-Eronini, Lynette T.
Art Unit 1765
Attorney Docket No. 4990 USA/W-C/W-C/JB1
BSTZ Docket No. 4887.P447

 Applicant claims small entity status. See 37 CFR 1.27.**METHOD OF PAYMENT (check all that apply)**

☒ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None
☒ Deposit Account
 Deposit Account Number : 02-2666
 Deposit Account Name: _____
☒ The Director is Authorized to do the following with respect to the above-identified Deposit Account:
 ☐ Charge fee(s) indicated below.
 ☒ Credit any overpayments.
 ☒ Charge any additional fees during the pendency of this application.
 ☒ Any concurrent or future reply that requires a petition for extension of time should be treated as incorporating an appropriate petition for extension of time and all required fees should be charged.
 ☐ Charge fee(s) indicated below except for the filing fee.

FEE CALCULATION**1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	7702001	385		Utility application filing fee	_____
1002	3402002	170		Design application filing fee	_____
1003	5302003	265		Plant filing fee	_____
1004	7702004	385		Reissue filing fee	_____
1005	1602005	80		Provisional application filing fee	_____
SUBTOTAL (1)					\$ <u>0</u>

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

		Extra Claims	Fee from below	Fee Paid
Total Claims	<u> </u>	- 20** = <u> </u>	X <u> </u>	= <u> </u>
Independent Claims	<u> </u>	- 3** = <u> </u>	X <u> </u>	= <u> </u>
Multiple Dependent	<u> </u>		<u> </u>	= <u> </u>

**Or number previously paid, if greater; For Reissues, see below.

Large Entity		Small Entity		Fee Description	
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	182202	9		Claims in excess of 20	
1201	862201	43		Independent claims in excess of 3	
1203	2902203	145		Multiple dependent claim, if not paid	
1204	862204	43		**Reissue independent claims over original patent	
1205	182205	9		**Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)					\$ <u>0</u>

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

<u>Large Entity</u>		<u>Small Entity</u>		<u>Fee Description</u>	<u>Fee Paid</u>
<u>Fee Code</u>	<u>Fee (\$)</u>	<u>Fee Code</u>	<u>Fee (\$)</u>		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1813	8,800	1813	8,800	Request for inter parties reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	180.00
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	For filing a submission after final rejection (see 37 CFR 1.129(a))	
1814	110	2814	55	Statutory Disclaimer	
1810	770	2810	385	For each additional invention to be examined (see 37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	
1504	300	1504	300	Publication fee for early, voluntary, or normal pub.	
1505	300	1505	300	Publication fee for republication	
1803	130	1803	130	Request for voluntary publication or republication	
1808	130	1808	130	Processing fee under 37 CFR 1.17(i) (except provisionals)	
1454	1,330	1454	1,330	Acceptance of unintentionally delayed claim for priority	

Other fee (specify) _____

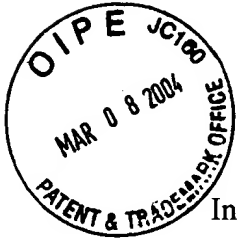
Other fee (specify) _____

SUBTOTAL (3) \$ 180.00

*Reduced by Basic Filing Fee Paid

SUBMITTED BY:Typed or Printed Name: Heather M. MolleurSignature: H M Molleur Date: 3/4/04Reg. Number: 50,432 Telephone Number: (408) 720-8300

Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application of:

Steven Verhaverbeke et al.

Examiner: Umez-Eronini, Lynette T.

Application No.: 09/891,730

Art Unit: 1765

Filed: June 25, 2001

For: CLEANING METHOD AND SOLUTION
 FOR CLEANING A WAFER IN A
SINGLE WAFER PROCESS

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed for applications filed after June 30, 2003). It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search

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(Date of Deposit)

Claire Walters

(Typed or printed name of person mailing correspondence)

Claire Walters 3/4/2004
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has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

03/10/2004 SDENBOB1 00000131 09891730

01 FC:1806

180.00 0P

Pursuant to 37 C.F.R. § 1.98 (a)(3)(i), below follows concise explanations for the two references in German which are listed on the attached 1449 pages.

ANDEREGG, VON G., ET AL., Hydroxamatkomplexe III¹). Eisen (III)-Austausch zwischen Sideraminen und Komplexonen Diskussion der Bildungskonstanten der Hydroxamatkomplexe.

SUMMARY

The iron transfer from sideramines to suitably chosen complexones (EDTA and similar compounds) has been studied optically. From the equilibrium constants of such exchange reactions the stability constants of Ferrioxamine B, Ferrioxamine D₁, Ferrioxamine E, Ferrichrom and Ferrichrysin have been deduced. For the results see table 5.

The coordination characteristics of the hydroxamic acid group are discussed. It is a typical bidentate oxygen donor behaving very much like acetylacetone towards the various metal ions. There is a pronounced preference for Fe^{III} which is even enhanced in the trihydroxamic acids serving in the sideramines as sexadentate ligands.

SCHWARZENBACH, VON G., ET AL., Hydroxamatkomplexe I. Die Stabilität der eisen (III)-Komplexe einfacher Hydroxamsäuren und des Ferrioxamins B.

SUMMARY

The equilibria between iron (III), acethydroxamic acid, benzhydroxamine acid, desferri-ferrioxamin B and their iron complexes have been elucidated by combining redox potentials, pH and photometric measurements. For the results see section f above.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):


- _____ 37 C.F.R. §1.97(b).
- X 37 C.F.R. §1.97(c). If so, then enclosed with this Information Disclosure Statement is one of the following:
- _____ A statement pursuant to 37 C.F.R. §1.97(e) or
- X A check for \$180.00 for the fee under 37 C.F.R. § 1.17(p).
- _____ 37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following:
- (1) A statement pursuant to 37 C.F.R. §1.97(e); and
 - (2) A check for \$180.00 for the fee under 37 C.F.R. §1.17(p) for submission of the Information Disclosure Statement.

If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,


BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 3/4, 2004


Heather M. Molleur
Reg. No. 50,432

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Legal Affairs Dept.
APPLIED MATERIALS, INC.
P.O. Box 450A
Santa Clara, CA 95052

Telephone inquiries to:
Heather M. Molleur
(408) 720-8300

Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/891,730
				Filing Date	June 25, 2001
				First Named Inventor:	Steven Verhaverbeke et al.
				Art Unit	1765
				Examiner Name	Umez-Eronini, Lynette T.
Sheet	1	of	2	Attorney Docket Number	4990 USA/W-C/W-C/JB1
				BSTZ Docket No.:	4887.P447
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
		ANDEREGG, VON G., ET AL., Hydroxamatkomplexe III ¹). Eisen (III)-Austausch zwischen Sideraminen und Komplexonen Diskussion der Bildungskonstanten der Hydroxamatkomplexe, Helvetica Chimica Acta, Volumen XLVI, Fasciculus IV (1963) – No. 156, pgs. 1409-1422, Basel 7 (Schweiz).			
		BIRUS, MLADEN, ET AL., Iron (III) Complexation by Desferrioxamine B in Acidic Aqueous Solutions. Kinetics and Mechanism of the Formation and Hydrolysis of the Binuclear Complex Diferrioxamine B, Inorganic Chemistry, Vol. 23, No. 14, 1984, pgs. 2170-2175, ©1984 American Chemistry Society.			
		BIRUS, MLADEN, ET AL., Iron (III) Complexation by Desferrioxamine B in Acidic Aqueous Solutions. The Formation of Binuclear Complex Diferrioxamine B, Inorganica Chimica Acta, Vol. 78 (B6) N. 2, February 1983, pgs. 87-92, © Elsevier Sequoia/Printed in Switzerland.			
		BIRUS, MLADEN, ET AL., Kinetics and Mechanism of Interactions Between Iron (III) and Desferrioxamine B. The Formation and Hydrolysis of Ferrioxamine B in Acidic Aqueous Solution, Croatica Chimica Acta, CCACAA 56 (1) pgs. 61-77.			
		BIRUS, MLADEN, ET AL., Kinetics of Stepwise Hydrolysis of Ferrioxamine B and of Formation of Diferrioxamine B in Acid Perchlorate Solution, Inorganic Chemistry, Vol. 26, No. 7, 1987, pgs. 1000-1005, © 1987 American Chemical Society.			
		BIRUS, MLADEN, ET AL., Mechanistic and Equilibrium Study of the Iron (III) Complexation by Deferrioxamine B in Aqueous Acidic Solution. Evidence for the Formation of Binuclear Diferrioxamine B, Inorganica Chimica Acta, Bioinorganic Chemistry Articles And Letters, Vol. 56(B3), No. 2, August 1981, pgs L43-L44, © Elsevier Sequoia S.A., Lausanne, Printed in Switzerland.			
		EVERS, ANN, ET AL., Metal Ion Recognition in Ligands with Negatively Charged Oxygen Donor Groups. Complexation of Fe(III), Ga(III), In(III), Al(III), and Other Highly Charged Metal Ions, Inorganic Chemistry, Vol. 28, No. 11, 1989, pgs. 2189-2195, © 1989 American Chemical Society.			
		GOULD, BRIAN, ET AL., A Thermodynamic Description of the Binding of Iron to Ferrioxamine B in Aqueous Solutions, Archives Of Biochemistry And Biophysics, Vol. 215, No. 1, April 1, 1982, pgs. 148-156, © 1982 by Academic Press, Inc., A Subsidiary of Harcourt Brace Jovanovich, Publishers, New York London Paris San Diego San Francisco São Paulo Sydney Tokyo Toronto.			
		HARJU, LEO, The Stability Constants Of Some Metal Chelates Of Triethylenetetraminehexaacetic Acid (TTHA), Analytica Chimica Acta, Vol. 50, 1970, pgs. 475-489, Elsevier Publishing Company, Amsterdam, Printed in The Netherlands.			
Examiner Signature				Date Considered	


*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/891,730
				Filing Date	June 25, 2001
				First Named Inventor:	Steven Verhaverbeke et al.
				Art Unit	1765
				Examiner Name	Umez-Eronini, Lynette T.
Sheet	2	of	2	Attorney Docket Number	4990 USA/W-C/W-C/JB1
				BSTZ Docket No.:	4887.P447

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		HARJU, LEO, ET AL., Titrations With Complexing Agents Forming Mononuclear And Binuclear Complexes With Metals, <i>Analytica Chimica Acta</i> , Vol. 49, 1970, pgs. 205-219, Elsevier Publishing Company, Amsterdam, Printed in The Netherlands.	
		KHAN, M.M. TAQUI, ET AL., Aminopolycarboxylic Acid Complexes of Al(III), Ga(III) & In(III), <i>Indian Journal of Chemistry</i> , Vol. 19A, January 1980, pgs. 50-57, published by The Council Of Scientific & Industrial Research, New Delhi, India.	
		MA, RONG, ET AL., Protonation constants and metal ion binding constants of <i>N,N'</i> -bis(2-hydroxyphenyl)- <i>N,N'</i> -ethylenediaminediacetic acid, <i>Inorganica Chimica Acta</i> , The International Inorganic Chemistry Journal, Vol. 209, No. 1, July 1, 1993, pgs. 71-78, © 1993 Elsevier Sequoia.	
		MONZYK, BRUCE, ET AL., Kinetics and Mechanism of the Final Stage of Ferrioxamine B Aquation in Aqueous Acid, <i>Inorganica Chimica Acta</i> , Bioinorganic Chemistry Articles and Letters, Vol. 55 (B2) No. 1 January 1981, pgs. L5-L7, © Elsevier Sequoia S.A., Lausanne-Printed in Switzerland.	
		MONZYK, BRUCE, ET AL., Kinetics and Mechanism of the Stepwise Dissociation of Iron (III) from Ferrioxamine B in Aqueous Acid, <i>Journal Of The American Chemical Society</i> , Vol. 104, No. 18, 1982, pgs. 4921-4929, © 1982 American Chemical Society.	
		ÖHMAN, LARS-OLOF, Equilibrium and Structural Studies of Silicon (IV) and Aluminum (III) in Aqueous Solution. 21. A Potentiometric and ²⁷ Al NMR Study of the System H ⁺ -Al ³⁺ -MoO ₄ ²⁻ , <i>Inorganic Chemistry</i> , Vol. 28, No. 19, 1989, pgs. 3629-3632, © 1989 American Chemical Society.	
		WINSTON, ANTHONY, ET AL., Hydroxamic Acid Polymers. Effect of Structure on the Selective Chelation of Iron in Water, <i>Macromolecules</i> , Vol. 11, No. 3, May-June 1978, pgs. 597-603, © 1978 American Chemical Society.	
		YOSHIDA, ISAO, ET AL., New multidentate ligands. XXI. Synthesis, proton, and metal ion binding affinities of <i>N,N,N'</i> -tris[2-(<i>N</i> -hydroxycarbamoyl)ethyl]-1,3,5-benzenetricarboxamide (BAMTPH), <i>Canadian Journal of Chemistry</i> , Vol. 61, Number 12, December 1983, pgs. 2740-2744, National Research Council Canada, Printed in Canada by K.G. Campbell Corporation.	
		SCHWARZENBACH, VON G., ET AL., Hydroxamatkomplexe I. Die Stabilität der eisen (III)-Komplexe einfacher Hydroxamsäuren und des Ferrioxamins B, <i>Helvetica Chimica Acta</i> , Volumen XLVI, Fasciculus IV, No. 154, 1963, pgs. 1390-1400, Basel 7 (Schweiz).	
		VALTRON Specialty Chemicals for Tomorrow's Technology, VALTRON DP Series Formulated Detergents, 1 page.	

Examiner Signature	Date Considered
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*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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